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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,827	03/10/2004	Satoru Wakao	B588-042	7468
26272 7590 08/17/2007 COWAN LIEBOWITZ & LATMAN P.C. JOHN J TORRENTE 1133 AVE OF THE AMERICAS			EXAMINER	
			REZA, MOHAMMAD W	
NEW YORK,			ART UNIT	PAPER NUMBER
			2136	
			MAIL DATE	DELIVERY MODE
			08/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
•		10/797,827	WAKAO ET AL.			
C	Office Action Summary	Examiner	Art Unit			
		Mohammad W. Reza	2136			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Res	ponsive to communication(s) filed on 10 Ma	arch 2004.				
2a)∐ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Sinc	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition o	f Claims					
4) Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Clai	m(s) <u>1-13</u> is/are rejected.					
/ · · ·	m(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) <u></u> The :	specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on 10 March 2004 is/are: a)⊠ accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority unde	r 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Associate and A	•					
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of D	raftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
	n Disclosure Statement(s) (PTO/SB/08) s)/Mail Date <u>03/10/04-12/15/05</u> .	5)  Notice of Informal P 6)  Other:	ratent Application			

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## **DETAILED ACTION**

1. Claims 1-13 are presented for examination.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005), Annex IV, reads as follows:

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component. (The definition of "data structure" is "a physical or logical relationship among data elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works and a compilation or mere arrangement of data.

When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035.

2. Claim 11 is rejected under 35 U.S.C. 101 because the claim invention is directed to non-statutory subject matter. According to the specification of the invention (Page 1-22), "A computer program" is reasonably interpreted by one of ordinary skill as just software, it is a system of software, per se. In this claim the function of the program is just software not any hardware. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32

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USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure **stored in memory** held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention which permit the data structure's functionality to be realized. Similarly, computer programs claimed as computer instructions per se, i.e., the descriptions or expressions of the programs, are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized. Accordingly, it is important to distinguish claims that define descriptive material per se from claims that define statutory inventions. So, it does not appear that a claim reciting software with functional descriptive material falls within any of the categories of patentable subject matter set forth in § 101.

## Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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3. Claims 1-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Hirata et al hereafter Hirata (Foreign patent application JP2002300150).

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- 4. As per claim 1, Hirata discloses a digital signature generating apparatus comprising: a processing unit adapted to change a secret key used by said digital signature generating apparatus to a secret key specified by a key change command if the key change command has been received (page 2, paragraphs, 0005), and generate a digital signature of prescribed digital data using any one of the plurality of secret keys if a signature generating command has been received (page2, paragraphs, 0008).
- 5. As per claim 2, Hirata discloses the apparatus wherein said apparatus is an IC card (paragraphs, 0006).
- 6. As per claim 3, Hirata discloses the apparatus wherein said apparatus is an apparatus equipped with a multi-application operating system (paragraphs 0007).
- 7. As per claim 4, Hirata discloses the apparatus wherein the key change command is a command that includes information specifying any one of the plurality of secret keys (page, paragraphs, 0005).
- 8. As per claim 5, Hirata discloses the apparatus wherein the signature generating command is a command that includes the prescribed digital data or hash thereof (paragraphs, 0007).
- 9. As per claim 6, 11, and 12 Hirata discloses a method, and a computer readable medium comprising the steps of: changing a secret key used by said digital signature generating apparatus to a secret key specified by a key change command if the key change command has been received (page 2, paragraphs, 0005); and generating a

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digital signature of prescribed digital data using any one of the plurality of secret keys if a signature generating command has been received (page2, paragraphs, 0008).

- 10. Claims 7-10 are listed all the same elements of claim 2-5 but in method form rather than apparatus form. Therefore, the supporting rationales of the rejection to claim 2-5 apply equally as well to claim 7-10.
- 11. As per claim 13 Hirata discloses a digital signature generating apparatus comprising: a processing unit adapted to analyze an externally applied command, and set a secret key, which is to be used in generating the digital signature, from among the plurality of secret keys in accordance with result of the analysis (page 2, paragraphs, 0005, 0008).

## Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad w. Reza whose telephone number is 571-272-6590. The examiner can normally be reached on M-F (9:00-5:00). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOAZZAMI NASSER G can be reached on (571)272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

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Mohammad Wasim Reza

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8,15,07